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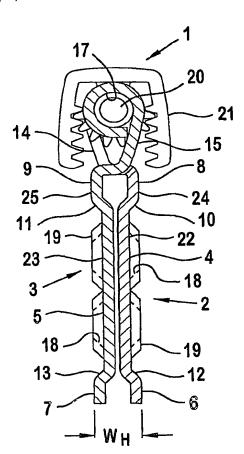
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HINGE WITH STIFFENED LEAF



(57) Abstract: A hinge including a stiffened leaf. The hinge comprise a first longitudinally-extending leaf (22, 23) having a base portion (6, 7) and a mounting portion (4, 5) offset and parallel to the base portion that defines a cavity. The mounting portion may contain at least one hole (18) for attaching the leaf to a hinged object with a fastener. In one embodiment, the hole includes an annular reinforcement disposed in the cavity proximate to the hole. The hole may be conical in shape and may extend into the reinforcement to receive and support a conically-shaped fastener head. The hinge is suitable for thin leaf construction and continuous full-length hinge applications.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/20870

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : E05D 7/00; E05D 5/02 US CL : 16/354, 387 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: Please See Continuation Sheet				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCU	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap		Relevant to claim No.	
Х Ү	US 1,097,458 A (McKinney) 19 May 1914 (10.05.19	14), see entire document.	3-8, 12-15, 17-24, 31, 3340, 42, 43, 45, 47- 51	
			1, 2, 9-11, 16, 25-30, 32, 41, 44 and 46	
Y	US 1,036,734 A (Sessions) 27 August 1912 (27.08.19	112), see entire document.	1-52	
Y	US 1,623.572 A (Berger) 05 April 1927 (05.04.1927), see entire document.		1-52	
Y	US 4,825,508 A (Post Jr.) 02 May 1989 (02.05.1989), see entire document.		1-52	
Y	US 4,873,744 A (Johnson, Jr.) 17 October 1989 (17.10.1989), see entire document.		1-52	
Y	Y US 5,778,491 A (Bacr) 14 July 1998 (14.07.1998), see entire document.		1-52	
Further	r documents are listed in the continuation of Box C.	See patent family annex.		
1 —	Special categories of cited documents:	"T" later document published after the inte	mational filing date or priority	
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the applic principle or theory underlying the inve	ntion	
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being		
"O" document referring to an oral disclosure, use, exhibition or other means		obvious to a person skilled in the art		
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent	family	
Date of the actual completion of the international search		Date of mailing of the international sear 23 NOV 2005	ch report	
	2005 (07.10.2005)	Authorized officer		
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Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/20870

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This Internal Please See C	ional Searching Authority found multiple inventions in this international application, as follows: continuation Sheet		
1.	As all required additional scarch fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. Remark on	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.		

	International application No.			
INTERNATIONAL SEARCH REPORT	PCT/US04/20870			
	I			
BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKI	NG			
This application contains the following inventions or groups of inventions which are concept under PCT Rule 13.1. In order for all inventions to be examined, the appro	priate additional examination fees must be paid.			
Group I, claim(s) 1-30 and 47-52, drawn to a hinge.				
Group II, claim(s) 31-46, drawn to a method of making a hinge.				
The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: group I has special technical feature of a hinge for pivotally connecting hinged members. Group II has special technical feature of making a hinge by forming a specific hinge leaf with a cavity, a raised portion, a hole and reinforcement, and a fastener.				
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Continuation of B. FIELDS SEARCHED Item 1:				
16/354, 387, 382, 388-392; D8/323-329;				
29/11				
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